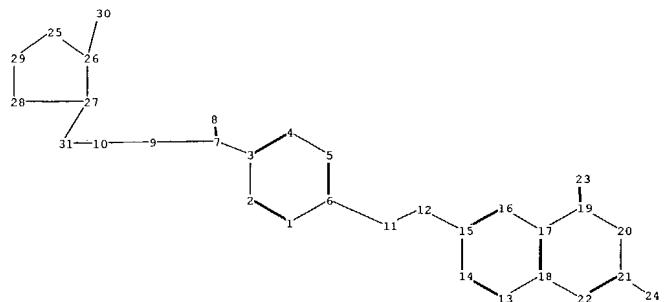
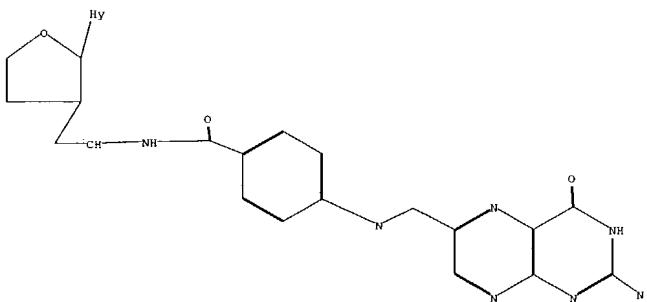


09/973,981



chain nodes :

7 8 9 10 11 12 23 24 30 31

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29

chain bonds :

3-7 6-11 7-8 7-9 9-10 10-31 11-12 12-15 19-23 21-24 26-30 27-31

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-22
19-20 20-21 21-22 25-26 25-29 26-27 27-28 28-29

exact/norm bonds :

6-11 7-8 7-9 9-10 11-12 17-19 18-22 19-20 19-23 20-21 21-22 21-24 25-26
25-29 26-27 26-30 27-28 28-29

exact bonds :

3-7 10-31 12-15 27-31

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:CLASS

09567863

FILE 'HOME' ENTERED AT 14:05:04 ON 29 JAN 2004

FILE 'REGISTRY' ENTERED AT 14:05:15 ON 29 JAN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 JAN 2004 HIGHEST RN 642928-00-5
DICTIONARY FILE UPDATES: 28 JAN 2004 HIGHEST RN 642928-00-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

*** YOU HAVE NEW MAIL ***

=>
Uploading 09973981.str

L1 STRUCTURE UPLOADED

```
=> d l1
L1 HAS NO ANSWERS
L1           STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
```

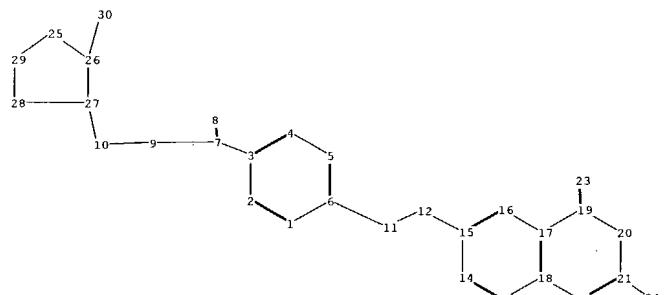
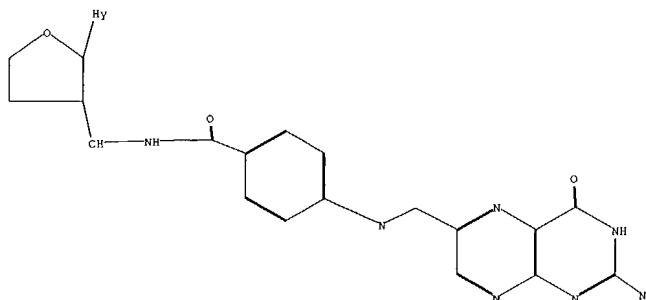
Structure attributes must be viewed using STN Express query preparation.

```
=> s 11 full
FULL SEARCH INITIATED 14:05:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      194 TO ITERATE
```

100.0% PROCESSED 194 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>



```

chain nodes :
 7 8 9 10 11 12 23 24 30
ring nodes :
 1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29
chain bonds :
 3-7 6-11 7-8 7-9 9-10 10-27 11-12 12-15 19-23 21-24 26-30
ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-22
 19-20 20-21 21-22 25-26 25-29 26-27 27-28 28-29
exact/norm bonds :
 6-11 7-8 7-9 9-10 11-12 17-19 18-22 19-20 19-23 20-21 21-22 21-24 25-26
 25-29 26-27 26-30 27-28 28-29
exact bonds :
 3-7 10-27 12-15
normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom
 29:Atom 30:Atom

```

09567863

=>
Uploading 09973981.str

L1 STRUCTURE uploaded

=> d l1
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 14:05:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 194 TO ITERATE

100.0% PROCESSED 194 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>
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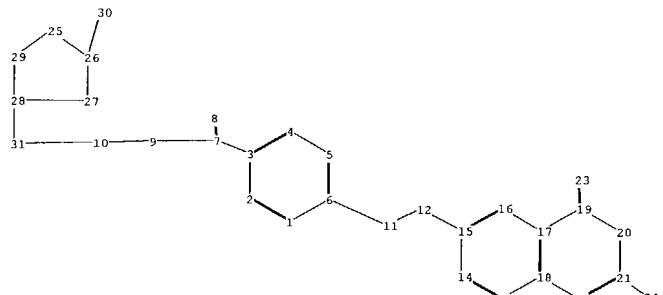
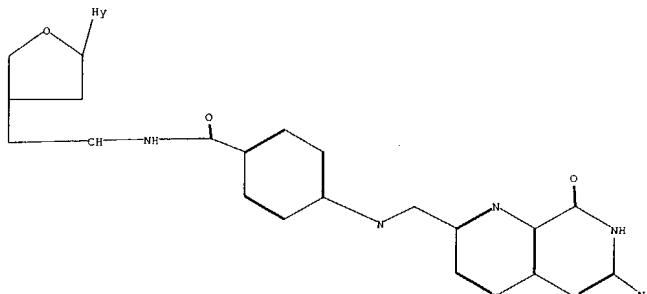
L3 STRUCTURE uploaded

=> s l3 full
FULL SEARCH INITIATED 14:06:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L4 0 SEA SSS FUL L3

=>



chain nodes :

7 8 9 10 11 12 23 24 30 31

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29

chain bonds :

3-7 6-11 7-8 7-9 9-10 10-31 11-12 12-15 19-23 21-24 26-30 28-31

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-22
19-20 20-21 21-22 25-26 25-29 26-27 27-28 28-29

exact/norm bonds :

6-11 7-8 7-9 9-10 11-12 17-19 18-22 19-20 19-23 20-21 21-22 21-24 25-26
25-29 26-27 26-30 27-28 28-29

exact bonds :

3-7 10-31 12-15 28-31

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:CLASS

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=>
Uploading 09973981.str

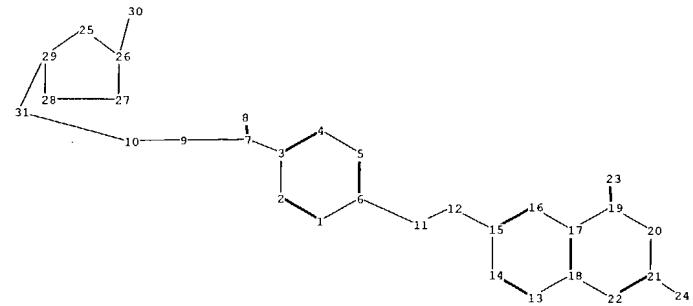
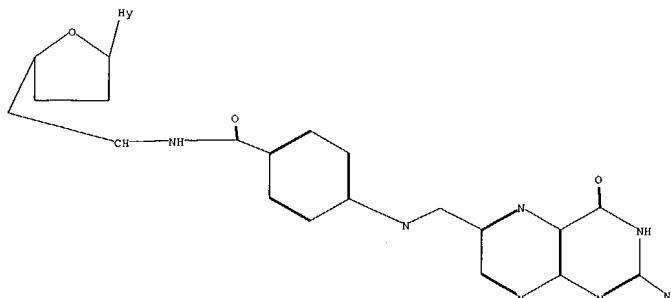
L5 STRUCTURE UPLOADED

=> s 15 full
FULL SEARCH INITIATED 14:07:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 194 TO ITERATE

100.0% PROCESSED 194 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L5

=>



chain nodes :

7 8 9 10 11 12 23 24 30 31

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29

chain bonds :

3-7 6-11 7-8 7-9 9-10 10-31 11-12 12-15 19-23 21-24 26-30 29-31

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-22
19-20 20-21 21-22 25-26 25-29 26-27 27-28 28-29

exact/norm bonds :

6-11 7-8 7-9 9-10 11-12 17-19 18-22 19-20 19-23 20-21 21-22 21-24 25-26
25-29 26-27 26-30 27-28 28-29

exact bonds :

3-7 10-31 12-15 29-31

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:CLASS

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=>
Uploading 09973981.str

L7 STRUCTURE UPLOADED

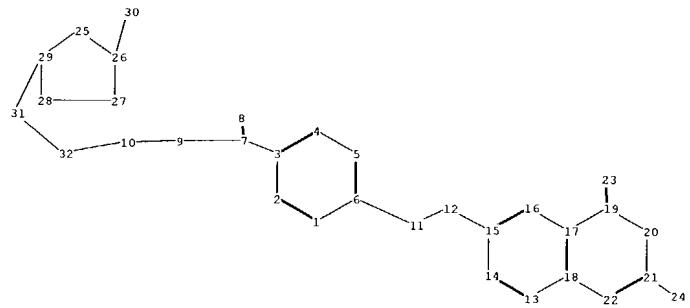
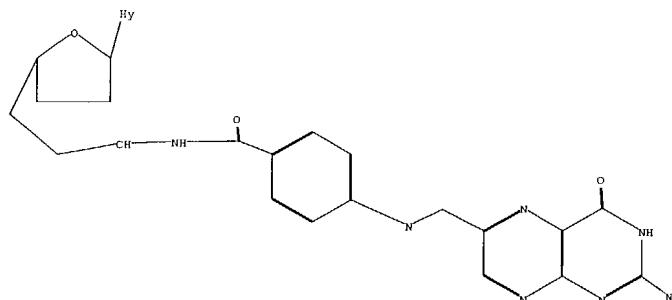
```
=> s 17 full
FULL SEARCH INITIATED 14:09:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      68 TO ITERATE
```

100.0% PROCESSED 68 ITERATIONS
SEARCH TIME: 00.00.01

O ANSWERS

L8 0 SEA SSS FUL L7

=>



chain nodes :

7 8 9 10 11 12 23 24 30 31 32

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29

chain bonds :

3-7 6-11 7-8 7-9 9-10 10-32 11-12 12-15 19-23 21-24 26-30 29-31 31-32

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 17-19 18-22
19-20 20-21 21-22 25-26 25-29 26-27 27-28 28-29

exact/norm bonds :

6-11 7-8 7-9 9-10 11-12 17-19 18-22 19-20 19-23 20-21 21-22 21-24 25-26
25-29 26-27 26-30 27-28 28-29

exact bonds :

3-7 10-32 12-15 29-31 31-32

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:Atom 26:Atom 27:Atom 28:Atom
29:Atom 30:Atom 31:CLASS 32:CLASS

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=>
Uploading 09973981.str

L9. STRUCTURE UPLOADED

=> s 19 full
FULL SEARCH INITIATED 14:11:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12 TO ITERATE

100.0% PROCESSED 12 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L10 0 SEA SSS FUL L9

=>